



>>Entry Name: Aluminium selenide (Al_2Se_3)

CAS Registry Number: 1302-82-5

Al_2Se_3

Molecular Formula: Al_2Se_3

Molecular Weight: 290.843

Accurate Mass: 293.712638

Percentage Composition: Al 18.55%; Se 81.45%

Use/Importance: Commercially available

Other Data: E_g 3.1 eV

>>Variant: Cubic-form

Molecular Formula: Al_2Se_3

Molecular Weight: 290.843

Accurate Mass: 293.712638

Percentage Composition: Al 18.55%; Se 81.45%

Source/Synthesis: Synth. from elements at 6×10^4 atm. and 600°

Physical Description: Grey moisture-sensitive cryst.

>>Variant: Hexagonal-form

Molecular Formula: Al_2Se_3

Molecular Weight: 290.843

Accurate Mass: 293.712638

Percentage Composition: Al 18.55%; Se 81.45%

Source/Synthesis: Synth. from elements at 1000°

Physical Description: Grey moisture-sensitive solid (melt)

Melting Point: M_p 980°

Other Data: ΔH_f° -543 kJ mol^{-1}

References: